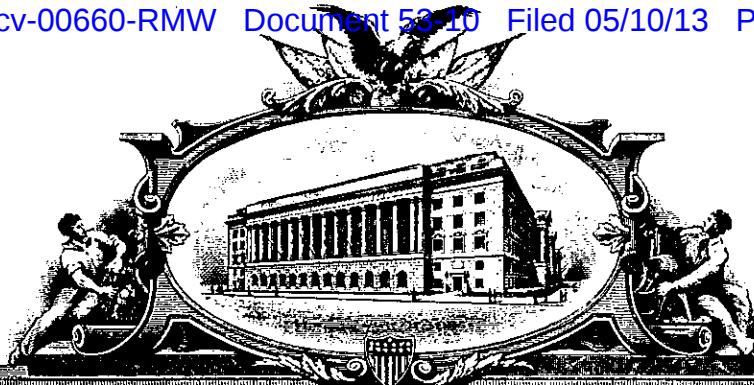


EXHIBIT 4

A 1879296



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

April 12, 2012

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF A DOCUMENT RECORDED ON
February 13, 2010.

By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office

R. PONDEXTER
Certifying Officer



PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:	ASSIGNMENT				
CONVEYING PARTY DATA					
<table border="1"> <tr> <td>Name</td> <td>Execution Date</td> </tr> <tr> <td>NXP</td> <td>02/07/2010</td> </tr> </table>		Name	Execution Date	NXP	02/07/2010
Name	Execution Date				
NXP	02/07/2010				

RECEIVING PARTY DATA	
Name:	NXP Holding 1 B.V.
Street Address:	High Tech Campus 60
City:	5656 AG Eindhoven
State/Country:	NETHERLANDS

PROPERTY NUMBERS Total: 365

Property Type	Number
Application Number:	11916192
Application Number:	11912007
Application Number:	11915401
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Application Number:	12063855
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OP \$14600.00 11916192

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PATENT
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PATENT
REEL: 023928 FRAME: 0499

CORRESPONDENCE DATA

Fax Number: (650)833-2001
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 6508332052
 Email: susan.pingue@dlapiper.com
 Correspondent Name: David L. Alberti
 Address Line 1: DLA Piper LLP US
 Address Line 2: 2000 University Avenue
 Address Line 4: East Palo Alto, CALIFORNIA 94303

ATTORNEY DOCKET NUMBER:	348162-990000
NAME OF SUBMITTER:	David L. Alberti

Total Attachments: 50

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PATENT
REEL: 023928 FRAME: 0501

PATENT ASSIGNMENT

This PATENT ASSIGNMENT ("Assignment") dated as of February 7, 2010 (the "Effective Date"), is made by and between NXP, a Dutch *besloten vennootschap* with an office at High Tech Campus 60, 5656 AG Eindhoven, The Netherlands ("Assignor") and NXP Holding 1 B.V., a Dutch *besloten vennootschap*, with an office at High Tech Campus 60, 5656 AG Eindhoven, The Netherlands ("Assignee").

WHEREAS, Assignor owns all right, title and interest in and to each issued patent and each pending patent application identified on Schedule 1 (collectively, the "Patents");

WHEREAS, Assignor and Assignee have entered into that certain Intellectual Property Transfer and License Agreement, dated as of February 7, 2010 (the "IP Agreement"), by and between Assignor and Assignee; and

WHEREAS, Assignor desires to sell, assign and transfer, and Assignee desires to receive, the Patents.

NOW, THEREFORE, for good and valuable consideration, including the premises and covenants set forth in the IP Agreement, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

Assignor hereby irrevocably sells, conveys, assigns and transfers to Assignee and its successors and assigns forever, without any restrictions, limitations or reservations all of Assignor's right, title and interest in and to the Patents, including without limitation, (i) any and all rights of priority and any foreign patents issuing thereon, (ii) all extensions, divisions, reissues, renewals and continuations thereof, (iii) all income, royalties or payments now or hereafter due or payable with respect to the Patents, (iv) all past, present and future claims, counterclaims, credits, causes of action, choses in action, rights of recovery and rights of setoff against third persons for infringement or other unauthorized violation of the Patents, together with the right at law or in equity to sue for and collect any resulting recovery of damages, lost profits, legal fees and costs, and (v) any and all rights corresponding thereto throughout the world (all collectively, the "Assigned Rights"), and Assignee does hereby accept assignment of the Assigned Rights from Assignor.

Assignee, its successors and assigns shall hold the rights to the Assigned Rights as fully and entirely as the same would have been held and enjoyed by Assignor had this Assignment not been made.

The internal law, without regard for conflicts of laws principles, of the State of New York shall govern the validity of this Assignment, the construction of its terms, and the interpretation and enforcement of the rights and duties of the parties hereto.

This Assignment may be executed in any number of counterparts, each of which shall be deemed to be an original, and all of which together shall constitute one and the same instrument.

IN WITNESS WHEREOF, this Agreement has been signed on behalf of each of the parties hereto as of the date first written above.

NXP B.V.

By: Guido Dierich

Name: Guido Dierich

Title: Authorized Signatory

[Notary Seal for Assignor]

Signature Page for Patent Assignment

PATENT

REEL: 023928 FRAME: 0503



NOTARIZATION

The undersigned:

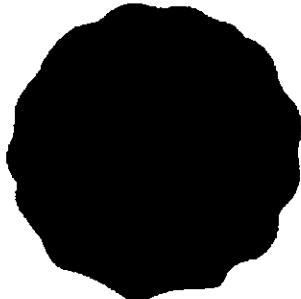
Petra Maria de Jong, civil-law notary in Eindhoven, the Netherlands,

declares:

The signature on the attached document is the original signature of Mr. Guido Rudolf Clemens Dierick, bearer of a Dutch passport with number NNF11C62, valid until the 6th day of July 2014.

This statement explicitly contains no judgement as to the contents of the Agreement referred to in the attached document nor regarding the authority of Mr. Dierick to represent NXP B.V.

Signed in Eindhoven, the Netherlands, on February 4, 2010.



In the Netherlands, the practice is conducted by AKD Prinsen Van Wijmen N.V. (registered in the Trade Register of the Chamber of Commerce, number 24366820). The general conditions of AKD Prinsen Van Wijmen N.V. are applicable and contain a limitation of liability clause. The applicability of any other general terms and conditions is hereby expressly excluded. The general conditions have been deposited at the Rotterdam District Court. Every liability is restricted to the sum paid in the case concerned under the (professional) liability insurance including the amount of the policy excess.

On request the general conditions will be sent without charges. They are also available on www.akd.nl.
AKD:#2212849v5

**PATENT
REEL: 023928 FRAME: 0504**

NXP HOLDING I B.V.

By: *Guido Dierickx*

Name: Guido Dierickx Jean Schreurs

Title: Authorized Signatories

[Notary Seal for Assignee]

Signature Page for Patent Assignment

PATENT

REEL: 023928 FRAME: 0505



NOTARIZATION

The undersigned:

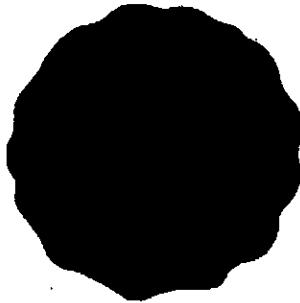
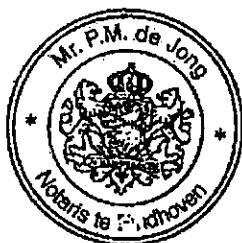
Petra Maria de Jong, civil-law notary in Eindhoven, the Netherlands,

declares:

The signatures on the attached document are the original signatures of Mr. Johannes Anetta Wilhelmus Schreurs, holder of a Dutch passport with number NPP7F8CB0, valid until the 14th day of May 2012 and Mr. Guido Rudolf Clemens Dierick, holder of a Dutch passport with number NNFD11C62, valid until the 6th day of July 2014.

This statement explicitly contains no judgement as to the contents of the Patent Assignment referred to in the attached document nor regarding the authority of Mr. J.A.W. Schreurs and/or Mr. Dierick to represent NXP Holding 1 B.V.

Signed in Eindhoven, the Netherlands, on February 4, 2010.



In the Netherlands, the practice is conducted by AKD Prinsen Van Wijmen N.V. (registered in the Trade Register of the Chamber of Commerce, number 24366820). The general conditions of AKD Prinsen Van Wijmen N.V. are applicable and contain a limitation of liability clause. The applicability of any other general terms and conditions is hereby expressly excluded. The general conditions have been deposited at the Rotterdam District Court. Every liability is restricted to the sum paid in the case concerned under the (professional) liability insurance including the amount of the policy excess. On request the general conditions will be sent without charges. They are also available on www.akd.nl.
AKD: #2612233v3

**PATENT
REEL: 023928 FRAME: 0506**

Schedule I: Patents and Patent Applications (REDACTED COPY)

Patent Date	Region	AppNbr	Patent
2006-05-30	US	11/916192	
2006-04-14	US	11/912007	
2006-05-08	US	11/915401	
2006-04-13	US	11/911864	7570110
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	2006-07-10	US	11/995984	
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	2007-03-29	US	122297506	
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2001-06-26	US	09892169	7016376
2003-10-01	US	10671110	7549156
2002-10-29	US	10284121	7415075
2004-12-16	US	11013963	
2003-09-30	US	10675566	
2003-06-30	US	10611400	7364892
2004-06-14	US	10867355	
2000-06-05	US	097588266	6724817
2000-12-13	US	09736891	6785700
2005-07-29	US	11194085	7301379
2005-07-28	US	1119407	
2008-12-19	US	12332949	
2008-12-31	US	12346906	
2008-12-31	US	12346936	
2008-12-31	US	12347841	
2008-12-31	US	12346910	
2008-12-31	US	12346912	

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File Date	Reissue	AppNbr	Patent
1995-08-24	US	08/519142	5874528
1997-11-04	US	08/963931	6208350
2000-09-20	US	09/677823	6538658
1997-11-12	US	08/958372	6061094
1999-03-01	US	09/239715	6396545
1996-10-02	US	08/755113	5907371
1998-12-04	US	09/215492	6434146
1998-12-04	US	09/215482	6434170
1998-12-04	US	09/215507	6359111
2000-06-28	US	09/605967	6774918
1993-01-18	US	08/402434	5386238
1994-09-19	US	08/708471	5418576

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File Date	Region	AppNbr	PAINT
1993-03-25	US	08/036771	5486865
1996-04-22	US	08/635806	5715011
1997-06-27	US	08883732	6208173
1998-02-10	US	09/021260	6020882
1999-12-03	US	09/454352	6493037

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1993-12-03	US	091453344	6239844
2000-01-25	US	091490587	6411338
2001-11-29	US	091998055	6882332
2001-12-18	US	101204066	68013827
2001-12-17	US	100223107	6815999

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	2002-01-29	US	10039428	6801077
	2002-07-21	US	10081891	6914473
	2002-04-08	US	10297730	6762643
	2002-12-05	US	10310729	7515145
	2003-06-17	US	10518772	
	2003-08-21	US	10525861	7113021
	2003-10-17	US	10532254	

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Patent Date	Patent No.	Assignee	Patent
2003-10-28	US 10/554890		
2003-11-18	US 10/555698		7499015
2003-12-29	US 10/540686		
1990-10-17	US 07/599336		5121207
1990-11-20	US 07/616446		5136384
1990-11-20	US 07/616455		5065115
1991-04-12	US 07/683374		5136369
1992-10-30	US 07/959630		5343165
1993-06-23	US 08/082071		5438371
1995-06-15	US 08/491099		5953068

Filed Date	Region	Applicant	Patent
1996-02-12	US	08/5592842	5754252
1996-07-08	US	08/677002	5802238
1996-07-11	US	08/678216	5923480
1997-02-10	US	08/7938345	5933198
1997-04-07	US	08/834489	6329625
1997-04-07	US	08/838488	6044114
1997-04-17	US	08/841913	6133949
1998-02-25	US	09/030485	6008693
1998-06-01	US	09/085723	6265096

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File Date	Region	AppNr	PatNr
2002-05-13	US	10144432	6917387
2002-06-26	US	10180402	7221726
2002-11-25	US	10498555	7499105
2003-01-22	US	10502407	
2003-07-01	US	10520316	
2003-10-27	US	10534161	7443375
2003-08-29	US	11071537	7570245
2003-08-29	US	11071879	7643039

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	Filed Date	Region	Appn#	Patent#
	2003-09-09	US	11080776	
	2003-09-09	US	10916983	7379072
	2007-03-22	US	11690071	
	2003-10-17	US	11098743	7257499
	2004-02-27	US	10548742	7352917
	2004-03-05	US	10548743	
	2004-04-22	US	10554530	

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2004-11-10	US	10/579538	
2004-12-05	US	10/580672	
2004-12-20	US	10/585200	
2005-06-30	US	11/631207	
1982-09-07	US	07/404935	5023717
1990-03-09	US	07/491149	5025925
1990-05-30	US	07/550712	5150066
1991-06-07	US	07/712221	5214674
1995-11-21	US	08/561572	6008849
1995-03-29	US	08/413061	5648819

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2000-05-10	US	09/568287	6754281
2000-09-18	US	09/662663	6707854
2000-08-17	US	09/640734	6738840
2000-08-29	US	09/649231	6865635
2001-04-10	US	09/8329790	6671318
2002-03-22	US	10/104911	7301570

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	Filed Date	Region	App#	Patent
	2003-03-31	US	10/510587	7249244
	2003-07-08	US	10/522084	
	2003-07-09	US	10/522463	
	2003-11-11	US	10/556732	
	2004-04-28	US	10/559262	
	2004-05-06	US	10/556616	
	2004-05-08	US	10/551462	7561208
	2004-07-14	US	10/557224	

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Patent	PatNo	AppNr	Region	Filed Date
				2004-07-14
			US	10/8567397
				2006-04-21
			US	10/576668
				2005-01-10
			US	10/5977061
				2005-05-20
			US	11/597734
				2002-09-18
			US	10/246169
				6342124

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REEL: 023928 FRAME: 0531

Patent	AppNbr	Region	Filing Date
	07/567414	US	1990-03-14
	08/537021	US	1995-03-01
	10/211895	US	2002-08-02
	5148269	US	1991-07-10
	5386248	US	1993-11-01
	5280350	US	1991-08-29
	5278476	US	1992-10-29

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	1997-01-23	US	08/7188734	5892337
	1997-02-03	US	08/792045	6064434
	1997-09-05	US	08/924866	6411341
	1997-09-30	US	08/9341642	5965487
	1997-05-27	US	08/863700	62178736
	1998-02-19	US	09/026449	5994958
	1998-03-05	US	09/035431	6774883

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1998-09-18	US	091156935	6385245
1999-04-20	US	09168454	6219851
1999-06-04	US	09326508	6218791
1999-06-25	US	091344232	6489984
1999-08-16	US	09134606	6487313
2002-07-17	US	101196817	7058227
1999-09-03	US	09138927	6407727
1999-12-21	US	091469452	6378046

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2001-06-11	US	09/878682	6741295
2000-09-25	US	09/856929	6459219
2001-09-14	US	09/952059	
2002-01-14	US	10/04626	7039109
2002-02-19	US	10/078953	7023920
2001-05-15	US	09/855628	7010039

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FILE DATE	Regon	AppNr	PatNr
2002-10-24	US	10493956	7009451
2002-10-28	US	10495947	7262807
2002-12-05	US	10498293	7336670
2003-02-05	US	10505499	

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	Filed Date	Region	AppNbr	PatNbr
	2003-07-12	US	10506836	7571450
	2003-04-11	US	10513482	7315332
	2003-07-24	US	10528968	
	2003-08-06	US	10527098	
	2003-09-19	US	10531902	
	2003-10-01	US	10531931	
	2003-10-22	US	10531919	
	2003-12-03	US	10531673	

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	2003-11-27	US	10537448	
	2003-12-08	US	10540103	7551185
	2003-12-16	US	10542893	7519230
	2004-02-20	US	10784019	7064501
	2004-04-08	US	10552778	7594046
	2004-04-13	US	10552800	7525553
	2004-07-01	US	10563849	
	2004-07-21	US	10564921	7532220

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	Filed Date	Region	APPN#	PATN#
	2004-07-14	US	10/565816	
	2004-08-23	US	10/669681	7536031
	2004-08-31	US	10/571608	
	2004-10-19	US	10/577105	
	2004-12-03	US	10/581222	
	2004-12-21	US	10/584501	
	2005-01-20	US	10/587604	
	2005-02-09	US	10/590249	

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	Filed Date	Region	AppNr	Patent
	2005-02-23	US	10592187	
	2005-04-29	US	11579357	
	2005-05-17	US	11559173	
	2005-06-21	US	11570800	
	2005-07-18	US	11572914	
	2005-08-30	US	11574344	

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2005-12-19	US	1172257	
2000-11-06	US	09706671	6760376
2000-11-10	US	09709997	6646688
2001-10-09	US	097973309	6847406
2000-11-15	US	09713412	6940523
2001-03-20	US	09812437	6993071
2001-03-29	US	09821277	
2001-04-20	US	09833321	6782054

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	Filed Date	Region	AppNbr	PatNbr
	2001-03-30	US	09/822454	6856649
	2001-10-16	US	09/981143	
	2001-11-02	US	10/001062	7116712
	2001-09-28	US	09/966038	
	2001-05-31	US	09/871198	69633840
	2001-05-29	US	09/8395905	
	2001-06-29	US	09/895965	6714257

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2001-10-26	US	10046533	6765622
2001-10-26	US	10044877	6993114
2001-10-26	US	10044876	7352814
2001-10-26	US	10045929	
2001-09-21	US	09961125	7257661
2002-06-28	US	10184518	

Filed Date	Region	AppNbr	PatNbr
	US	10183779	7539391
2002-06-27	US	10183798	7315622
2002-06-28	US	10183905	
2002-07-29	US	10120731	7024929
2002-09-18	US	10245984	7376266
2003-11-26	US	105236648	7167108
2003-11-26	US	105236647	7552252

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REEL: 023928 FRAME: 0549

Filed Date	Region	AppNbr.	Patent
2005-11-01	US	10/555518	
2004-06-29	US	10/560713	
2005-01-04	US	10/555443	
2005-03-23	US	10/594022	
2005-05-03	US	11/568512	
2005-09-16	US	11/573487	

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RECORDED: 02/13/2010